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Economic Consequences For Retail Trade In Light Of The Impact Of SARS-Cov-2

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Abstract

Analyzing the Impact of the Covid-19 Pandemic on Brick-and-Mortar Retail, with a Focus on India: A comprehensive study examining the economic repercussions on stationary trade, encompassing the aftermath of the initial lockdown in March and April 2020, as well as subsequent restrictions (store accessibility, masking requirements, spacing, etc.). The article also delves into the delayed effects and consequences of the second lockdown implemented in mid-December 2020, particularly during the critical Christmas and spring business seasons in 2021. The study explores the current economic landscape, conducts a thorough literature review involving reputable business enterprises, and aims to provide insights into future trends and actionable strategies in response to the crisis.

Keywords - Stationary Trade, Retail, Crisis, SARS-CoV-2, Implications

1 Introduction

The global effects of the SARS-CoV-2 pandemic are hitting all economies hard and highlighting the weaknesses of the interconnected world" (Mohammed 2020). Despite all the normalization of everyday life and the acceptance of a so-called "new normal," this also applies to the India economy. Even if the perceived mood currently seems to be better than the actual reality, the continuing and rising infection rates in the fourth quarter of 2020 document a permanent burden, with the time extension of the lock- down to the first and second quarter of 2021.

With these framework conditions, the following article is intended to pre- sent a picture of reality and shed light on the question of:

What implications in stationary retail branches and deriving correlation can be expected under the influence of SARS-CoV-2?

Governments around the world have taken unprecedented steps to help rescue companies and entire economies - and yet Indiay gross domes- tic product fell by 10.1% from April to June 2020 compared with the previous quarter (Bocksch 2020; Statistisches Bundesamt 2020). In all likelihood, the measures and efforts will have to continue for several years to be able to contain the health, social and economic effects of the pandemic (Baldwin and Di Weder Mauro 2020). A purely regional view of individual countries is misleading in this respect, as the closely interconnected global economy has considerable influences and interactions regarding the international upswing but also the downturn (McKibbin and Fernando 2020).

The India economic sectors are asymmetrically affected by the pandemic. While the tourism, event management, hotel and catering sectors, for example, are exposed to a considerable threat to their existence, as is alarge part of the stationary trade, the mechanical engineering and construction sectors are affected with a time lag. This trend will also continue (Börsch-Supan and Rausch Johannes) in secondary sectors such as the India pension insurance. Online retail, medical technology, food and fur- niture, on the other hand, are the first "winners" of the crisis.

2 Literature Review

The literature review used here deals with the economic challenge of the stationary trade, caused by the Corona Pandemic in 2020 and 2021, as well as with economic expertises of recognized business companies.

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Table 1: Initial results of the literature search

Search Term	ScienceDirect	GoogleScholar		Results after removing du-plicates
Stationary trade AND covid IN YEAR 2021	167	933	167	881

3 Material and Method

Stationary retail has already been undergoing structural change for sever- al years. "Innovative online providers are attacking established business concepts and securing ever larger shares of sales. The online channel ad- vantages are relevant for many customers and they can no longer be imagined without them" (Haug 2013). This disruptive process has accelerated and become irreversible under the current conditions, as was thematized within the 12th Retail Real Estate Summit on September 28.-29., 2020.

The winners and losers of recent years can be identified in different ways. Whereas in the 1980s and 1990s India food retailers focused primarily on size, low prices and a correspondingly plain ambience in their stores, a re- think set in with the upturn in 2006/2007 (Nierhaus 2006). Among other things, the reworking of the point of sale, higher-value products (Adler and Wohllebe 2020), more convenience, innovation and quality were prioritized. Likewise, discounters followed this trend. Between 2008 and 2019, sales in the sector increased by 32%, according to retail expert Manuel Jahn (ACROSS | The European Placemaking Magazine 2020). Parts of the non- food retail sector, such as the fashion industry, on the other hand, have been increasingly affected by store closures, especially in 2017. Corresponding distribution channels, such as department stores with their high fashion share and many shopping centers with their classic tenants from the sector, are following this degressive market trend. In these sectors, the pressure on rents is growing enormously. According to Jahn's estimate, the apparel sec- tor could lose about a third of its sales by 2030. This would free up retail space - on upper floors - that would have to be rented elsewhere. This could allow other sectors, such as cinemas or cabaret, to return to the city centers and bring about a more diverse sector mix (Matkins 2021).

However, digitization with omnipresent e-commerce and almost full prod- uct availability with ever shorter delivery times with the objective of "sameday delivery" will further accelerate structural change, cause downtown are- as to suffer in terms of vitality, and further erode market acceptance of stationary retail.

Changing market conditions and constantly changing customer preferences make it more difficult to address and retain customers in the long term. This is also driving competitive dynamics. Around 84 percent of Britons have bought a product online in the last twelve months. No other country surveyed can boast such a high e-commerce penetration rate. The USA has a rate of around 77 percent, and in India it is estimated that just under three quarters of the population made a purchase online last year (Bocksch 2020).

The coronavirus pandemic is an essential threat to the established strength of brick-and-mortar retail and strategic experiential shopping (OECD 2020). Politically imposed measures, such as hygiene concepts, partial lockdowns and various forms of contact reduction are essential to contain the pandemic and, most importantly, save lives.

Hypothesis

In the wake of the coronavirus and its impact on the stationary trade, the following three hypotheses emerge.

- A. There are mostly equal general trend developments, progressive and degressive, between textile retail, retail in total as well as the India stock market.
- B. The lockdown can be seen significantly in the trend movements.
- C. Internet sales have a negative impact on textile retail.

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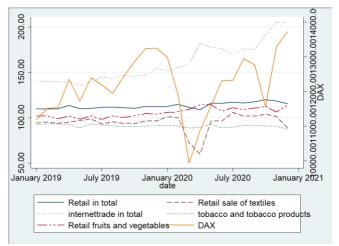


Figure 1: Detailed analysis during Covid-19 situation

The line chart represents how retail and sales of selected retail types change compared to the DAX. The x-axis is divided into the years from 2019 to 2021. The y-axis shows the sales in fifty thousand increments and theDAX value. The graphs of retail in total, retail sale of textiles, retail fruits and vegetables, tabacco and tabacco products and the internet trade in total remained largely constant until 2020. The DAX was subject to slight trading-related fluctuations during this period. With the collapse of the DAX in March 2020, retail sales of textiles also collapsed significantly at the same time. The retail in total, retail fruits and vegetables and the tabacco and tabacco products remain largely unchanged. On the other hand, internet trading slightly in- creased from March 2020. From the middle of the year 2020, the DAX and the retail sales of textiles rose again to the normal level. The turnover of internet trade has continued to rise slightly since then.

The reason for the collapse in March 2020 was the lockdown due to the corona crisis.

Variable	=	Obs	Me	an	Std.	Dev.	Min	Max	
Year	r	16	2012	.5	4.76	0952	2005	2020	
Retailinto~1	L	16	99.643	75	6.76	7764	92.5	115.5	
Retailfrui~s	3	16	104.33	13	8.770	0231	96.9	128.5	
retailmeat	.	16	110.2	75	15.2	7711	95.3	145.2	
tobaccoand~	3	16	104	. 8	9.76	5791	90.4	121.5	
fuel	L	16	104.26	25	6.19	3209	95.6	112.9	
Retailsale~s	3	16	105.74	38	7.91	7236	94.2	117.8	
internettr~1	L	16	89.906	25	36.8	3673	58.6	177.3	
internettr~	3	16	88.031	25	24.2	1764	61.5	136.7	
obs:	16						-		
vars: 9		13 Mar 2021 16:08							
size:	1,056								
s	torage	display	value						
variable name	type	format	label variable label						
Year	int	%ty		Yea	r				
Retailintotal	double	%14.2f		Ret	ail in to	otal			
Retailfruitsa~s	double	%14.2f		Retail fruits and regetables					
retailmeat	double	%14.2f		retail meat					
tobaccoandtob~s	double	%14.2f		tob	acco and	tobacco p	roducts		
fuel	double	%14.2f		fue	1				
Retailsaleoft~s	double	%14.2f	Retail sale of textiles						
internettrade~1	double	%14.2f		int	ernettra	ade in total			
internettrade~s	double	%14.2f		int	ernet tra	ade textil	es		

Figure 2: General data analysis (Statistisches Bundesamt 2021)

Research and Methodology

The data was already seasonally adjusted by the data providers. The year 2015 was the base with the value of 100. A. time trend is included as yearly values were used

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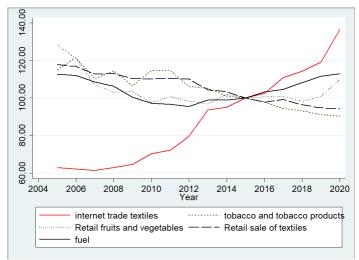


Figure 3: Detailed analysis during Covid-19 situation

The line chart represents retail and sales of selected retail types. The x- axis is divided into the years from 2004 to 2020. The y-axis shows the sales in twenty thousand steps.

The graphs of retail fruits and vegetables, fuel, tabacco and tabacco products and retail sale of textiles decreased slightly in the period under consideration from 2004 to 2020. A stagnation or negative trend can be seen in 2008 and 2009 in connection with the financial crisis. In contrast, the turn- over of internet trade textiles has increased significantly since 2004 to over 130,000 in 2020. The Lehmann Brothers crisis did not affect the trade of textiles via internet.

The chart shows how internet trade is becoming increasingly important.

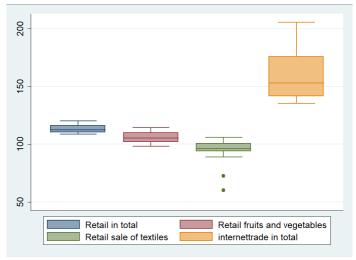


Figure 4: Boxplot, Analysis of the Retail during Covid-situation

For textile retail two outliers can be determined. Those are not exactly out-liers but rather mark the month for which a "Lock-Down" was issued by the government.

4 Results

For the results — a time trend is included, so only unit root was tested. As a unit root was observed, the lagged versions of Retail in total, Retail-sale of textiles, internet trade in total and DAX were used for further statements. Taking all selected retail areas into consideration, the following regressionis calculated:

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. reg d_retail	_textiles dre	tail_total o	_internet_tr	ade d_DAX	fuel to	baccoandtobac	coproducts	retailmeat date
Source	SS	df	MS	Numbe	er of obs	= 23		
				F(7	7, 15)	= 5.94		
Model	1908.97068	7 272.	710097	Prob	> F	= 0.0019		
Residual	688.301524	15 45.88	367683	R-squ	ared	= 0.7350		
				Adj F	R-squared	= 0.6113		
Total	2597.27221	22 118.0	57828	Root	MSE	= 6.774		
d reta	ail textiles	Coef.	Std. Err.	t	P> t	[95% Conf		
	- cholics		554. 222.		17 0	[500 00111		
dr	etail_total	2.683733	1.005887	2.67	0.018	.5397354	4.82773	
d_int	ernet_trade	582715	.2707774	-2.15	0.048	-1.159863	0055667	
_	d_DAX	.0040848	.0019871	2.06	0.058	0001506	.0083203	
	fuel	-1.22352	1.314251	-0.93	0.367	-4.024779	1.57774	
tobaccoandtoba	ccoproducts	1.051121	1.881256	0.56	0.585	-2.958681	5.060923	
	retailmeat	.5225656	1.106275	0.47	0.643	-1.835404	2.880535	
	date	.5134459	.568819	0.90	0.381	698963	1.725855	
	_cons	-377.9084	550.2224	-0.69	0.503	-1550.68	34.8629	

Figure 5: Figure of selected retail areas

As the tobacco products, fuel, meat sales and fruit and vegetable sales have no significant influence on the sales of textiles and general trends can be stated, these parameters are omitted on the equation. So Hypothesis A can be supported, there are mostly equal general trend developments, progressive and degressive, between textile retail, retail in total as well as the India stock market

According to a simple OLS regression $(Y_i = \beta_0 + \beta_1 x_1 + \beta_2 x_2 + ... + u =$

With the retail sale of volume of testile as independent variable and inter- net trade in total, Retailintotal and DAX as dependent variables, the following values were calculated:

. reg d_retail_textiles d_internet_trade dretail_total d_DAX date									
Source		SS	df	MS		Numb	er of obs	=	23
					_	F(4, 18)	=	11.43
Model	18	863.48278	4	465.87069	5	Prob	> F	=	0.0001
Residual	73	33.789427	18	40.766079	3	R-sq	quared	=	0.7175
					_	Adj	R-squared	=	0.6547
Total	25	97.27221	22	118.05782	8	Root	MSE	=	6.3848
d_retail_texti	~s	Coef.	S	td. Err.	t	P> t	[95% Co	onf	. Interval]
d_internet_tra	ide	4530712		2106457	-2.15	0.045	895621	L3	0105211
dretail_tot	al	2.99619		5648347	5.30	0.000	1.80951	L7	4.182864
d_I	XAC	.0036814		0017186	2.14	0.046	.000070	80	.007292
da	ite	.0756573		2090802	0.36	0.722	363603	38	.5149184
	ns	-54.55745	1	50.3763	-0.36	0.721	-370.486	53	261.3714

Figure 6: Figure of selected retail areas and DAX

This reveals the internet trade has a significant negative impact (at 5% significance level) on the textile retail. The same holds true for the DAX and the retail in total — but both have a positive impact (also at 5% significance level). The later was to be expected, the huge negative impact of internet trade on textile sales was a bit surprising. This supports hypothesis C, internet sales have a negative impact on textile retail.

For cross checking purpose a similar regression was run on the fuel price development during the 2019 and 2020 pandemic month. The outcome is almost as expected:

. reg fuel d_DAX d	l_internet_trac	de d_retail_t	extiles	date		
Source	SS di	MS		Numb F (er of obs =	23 2.70
Model 23	3.0230331	5.75575827				0.0637
Residual 38	3.3760973 18	2.13200541		R-sq	muared = 0	3750
Total 61	.3991304 22	2.79086957				0.2361 1.4601
fuel	Coef.	Std. Err.	t	P> t	[95% Conf.	. Interval]
d DAX	.0002421	.0004206	0.58	0.572	0006416	.0011258
d_internet_trade	0750589	.0525557	-1.43	0.170	1854745	.0353566
d_retail_textiles	.0230095	.0336678	0.68	0.503	0477239	.0937429
date	.1343795	.0479168	2.80	0.012	.0337101	.2350488
_cons	15.81481	34.46147	0.46	0.652	-56.58606	88.21567

Figure 7: Figure of selected retail areas and DAX

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Unlike the sales of textiles, the fuel price is not affected by the India stock market or the internet trade.

The upward trend of internet sales was already started several years ago. A separate research would have to be performed on the reasons and starting year. It can be assumed with the usage of smartphones and the rise of global players such as PayPal and Amazon, the internet trade was fueled. Surprisingly the sales of fruits and vegetables also rose during the Lockdownstarting month — again a separate research would be needed to reveal further details.

Variable	Obs	Mean	Std. Dev.	Min	Max
mdatel	0				
mdate	0				
Retailinto~l	24	113.1583	3.260157	108.7	120
Retailfrui~s	24	105.65	5.131488	98.2	114.3
retailmeat	24	97	2.550874	91.7	101.1
tobaccoand~s	24	90.80833	1.589891	87.6	93.2
fuel	24	112.275	1.71039	108	114.9
Retailsale~s	24	94.65	9.781793	60	105.9
internettr~l	24	159.9625	21.448	135.3	205.5
DAX	24	12197.77	879.9325	9935.84	13718.8
date	24	719.5	7.071068	708	731

Figure 8: Figure of retail sectors and DAX

In general all hypothesizes were true and proven by the provided figures. Although not expected, the internet sales have a big stake on the retail business. Some areas were not affected by the pandemic Lockdown but simply followed an already stared downward trend. A similar downward was found for textile retail over the years already.

Outlook and Summary

In order to contain the rapid spread of the coronavirus in India since late summer, a politically ordered "breakwater shutdown" was being implemented, with an extension option still open in November 2020. This severely restricts the catering and event industry in its business activities. In particular, overnight stays, indoor catering and events are prohibited. Among other things, the current increased 7-day incidence of more than 25 cases per 100,000 inhabitants is now present in 371 of a total of 401 counties. Of the- se, 113 urban or rural districts even have an incidence of more than 100 cases per 100,000 inhabitants. (Robert Koch Institute 2020) In this respect, the hard lockdown was decided in December 2020 and for the first and second quarter of 2021, with further negatively intensifying economic interactions for the gastronomy, trade and other industries. Above all, negative effects on the demand side result directly from domestic economic processes, in that "social consumption" is now massively restricted, in particular through strict contact restrictions of the regulations. These include restaurant visits, domestic tourism, attendance at cultural events, trade fairs, etc. (Wren-Lewis 2021). Across India, cultural institutions, pubs and clubs have been closed. A particular problem for this drop in demand is that it is not necessarily possible to expect catch-up effects over time. In the case of interrupted supply chains, it can be expected in many cases that the corresponding pur- chases and sales will take place later. If a car cannot be produced and sold today, it may be in a few months. This is different for social consumption. Restaurant visits or private trips that do not take place today will not necessarily be made up for later. Private consumption has so far proved to be a pillar of the economy. Due to the cancellation of trade shows, trips and events, a consumption recession has become very likely in 2020. In addition to the industrial recession that has already been going on for several quarters. Whether full compensation for these effects in subsequent quarters appears realistic is at least questionable, as certain demand components willnot necessarily be made up.

Until SARS-CoV-2, COVID-19, possible sequelae, or even therapeutic and preventive measures are researched, the situation remains critical and the world burdened by the pandemic (World Health Organization 2020).

The future of stationary trade with the decisive differentiating feature of experience shopping with event companies seems to have no possibility of being exercised until further notice. Politics, economy and society will have to represent and live these newer framework conditions in the future, conditioned by containment measures of the pandemic.

This pandemic can only be tackled jointly and with solidarity. The light lockdown and the subsequent hard lockdown in mid-December 2020 until the first half of 2021 will once again pose considerable challenges to the economic resilience of the heavily affected sectors such as gastronomy, retail and other industries. In this respect, the government

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measures must be selected and implemented with extreme strength and precision in terms of timing, targeting and timing in order to prevent an economic insolvency spiral (Gaspar and Mauro 2021).

Immediately, the situation regarding the Corona crisis is changing in a highly dynamic way and may be containable in the future with the hope of a vaccine and what is happening can be controlled.

The present text will therefore in parts be overtaken by reality at the time of publication, but should be understood until possible herd immunity is reached for a common solution of all challenges, in constructive cooperation.

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